

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A compound binding to leukocytes represented by the formula (1):



(wherein, in the formula (1), Z represents a protecting group for an amino group; Y represents Met or Nle; in $(X)_n$, X represents a spacer consisting of one or more of amino acids and/or synthetic organic compounds, and n represents 1 or 0; in $(\text{NH}_2)_m$, NH_2 represents an amide group as a protecting group for a carboxyl group in the α position of Lys, and m represents 1 or 0; in $\epsilon\text{(-R-(T)}_l\text{-U)}$, R represents Ser or Thr binding to an ϵ -amino group of Lys through an amide bond, T represents a spacer consisting of one or more of amino acids and/or synthetic organic compounds, l represents 1 or 0, and U represents a group which can be labeled with a metal; with the proviso that said X and T may be the same or different from each other).

2. (currently amended): The compound binding to leukocytes according to claim 1, wherein U in the formula (1) is a group consisting of a peptide represented by -Cys-A1-A2 (A1 and A2 are each an amino acid except for Cys and Pro), nitrogen-containing cyclic compounds with 8 to 20 carbon atoms, nitrogen-containing cyclic carboxylic acid compounds with 8 to 20 carbon atoms, derivatives of nitrogen-containing cyclic carboxylic acid compounds with 8 to 20

carbon atoms or alkylenamine carboxylic acids with 4 to 10 carbon atoms, which can be labeled with a metal ~~which can be labeled with a metal.~~

3. canceled

4. (currently amended): The compound binding to leukocytes according to claim 1 ~~or 2~~, wherein said compound represented by the formula (1) is one selected from the group consisting of:

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-Cys-Gly-Asn);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-Cys-Asp-Asp);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-Cys-Gly-Asp);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-D-Arg-Asp-Cys-Asp-Asp);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-1,4,8,11-tetraazacyclotetradecane-1,4,8,11-tetraacetic acid);

formyl-Nle-Leu-Phe-Lys(NH₂)-ε-(-Ser-D-Ser-Asn-D-Arg-Cys-Asp-Asp);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-D-Arg-diethylenetriamine pentaacetic acid);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-1,4,8,11-tetraazacyclotetradecane-butyric acid);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-D-Arg-Asp-1,4,8,11-tetraazacyclotetradecane-butyric acid);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-D-Ser-Asn-1,4,8,11-tetraazacyclotetradecane-butyric acid);

acetyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-D-Arg-Asp-Cys-Asp-Asp);
carbamyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-D-Arg-Asp-Cys-Asp-Asp); and
methyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-D-Arg-Asp-Cys-Asp-Asp).

5. (currently amended): A medicinal composition containing said compound binding to leukocytes according to ~~any one of claims 1 to 4~~ claim 1 in labeled state with a radioactive metal or a paramagnetic metal as the active ingredient.

6. (currently amended): The medicinal composition according to claim 5, wherein said radioactive metal is Tc-99m, In-111-~~or~~, Ga-67, CU-64 or Ga-68.

7. (currently amended): The medicinal composition according to claim 6, wherein said composition is used in SPECT or PET image diagnosis for imaging a site of vigorous leukocytes infiltration accompanied by immune reaction in an individual.

8-9. Canceled

10. (original): The medicinal composition according to claim 5, wherein said paramagnetic metal is Gd, Fe, Mn or Cu.

11. (original): The medicinal composition according to claim 10, wherein said composition is used in MRI image diagnosis for imaging a site of vigorous leukocytes infiltration accompanied by immune reaction in an individual.

12. (original): The medicinal composition according to claim 5, wherein said radioactive metal is Y-90, Sn-117m, Sm-153, Re-186 or Re-188.

13. (original): The medicinal composition according to claim 12, wherein said composition is used for the radiotherapy.

14. (new): The compound binding to leukocytes according to claim 2, wherein said compound represented by the formula (1) is one selected from the group consisting of:

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-Cys-Gly-Asn);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-Cys-Asp-Asp);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-Cys-Gly-Asp);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-D-Arg-Asp-Cys-Asp-Asp);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-1,4,8,11-tetraazacyclotetradecane-1,4,8,11-tetraacetic acid);

formyl-Nle-Leu-Phe-Lys(NH₂)-ε-(-Ser-D-Ser-Asn-D-Arg-Cys-Asp-Asp);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-D-Arg-diethylenetriamine pentaacetic acid);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-1,4,8,11-tetraazacyclotetradecane-butyric acid);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-D-Arg-Asp-1,4,8,11-tetraazacyclotetradecane-butyric acid);

formyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-D-Ser-Asn-1,4,8,11-tetraazacyclotetradecane-butyric acid);

acetyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-D-Arg-Asp-Cys-Asp-Asp);

carbamyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-D-Arg-Asp-Cys-Asp-Asp); and

methyl-Nle-Leu-Phe-Nle-Tyr-Lys(NH₂)-ε-(-Ser-D-Arg-Asp-Cys-Asp-Asp).